

Title (en)
SOUND ATTENUATION APPARATUS AND METHODS

Title (de)
SCHALLDÄMPFUNGSVORRICHTUNG UND -VERFAHREN

Title (fr)
APPAREIL ET PROCÉDÉS D'ATTÉNUATION SONORE

Publication
EP 3557571 A1 20191023 (EN)

Application
EP 19168550 A 20190410

Priority
US 201815956017 A 20180418

Abstract (en)
A sound attenuation apparatus includes a body and a stacked cavity structure. The structure includes a structure inlet formed in the top surface of the body; a passage extending from the structure inlet into the interior of the body to a base surface within the body; a first cavity with a first cavity inlet fluidly coupled to the passage and being formed by a first arm, a first side wall within the interior of the body, and the base surface; and a second cavity with a second cavity inlet fluidly coupled to the passage and being formed by a second arm, the first side wall, and the first arm. Each of the first and second arms extends from the first side wall and includes at least two arm segments oriented at different angles relative to the first side wall longitudinal axis.

IPC 8 full level
G10K 11/172 (2006.01); **G10K 11/168** (2006.01)

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Citation (search report)
• [Y] EP 2953130 A1 20151209 - MRA SYSTEMS INC [US]
• [Y] US 4336863 A 19820629 - SATOMI SEIGO
• [Y] EP 2846030 A1 20150311 - AIRBUS DEFENCE & SPACE GMBH [DE], et al
• [A] US 2017122341 A1 20170504 - ALONSO-MIRALLES JOSE S [US], et al
• [A] FR 2943594 A1 20101001 - PEUGEOT CITROEN AUTOMOBILES SA [FR]
• [A] US 2015122576 A1 20150507 - KIM SANG HOON [KR]

Cited by
US11204204B2; CN117345353A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 3557571 A1 20191023; US 10626886 B2 20200421; US 2019323522 A1 20191024; US 2020158138 A1 20200521;
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